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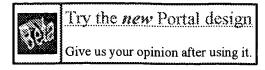


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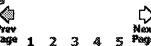
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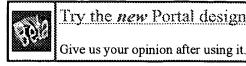
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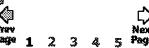
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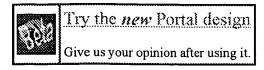
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21 Parametric polymorphism in Java: an approach to translation based on 80% reflective features

Page 1 2 3 4 5 Page

Mirko Viroli, Antonio Natali

ACM SIGPLAN Notices, Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications October 2000

Volume 35 Issue 10

The introduction of parametric polymorphism in Java with translation approaches has been shown to be of considerable interest, allowing the definition of extensions of Java on top of the existing Virtual Machines. Homogeneous translations furthermore, seem to be more useful than heterogeneous, avoiding the continuous increase of library code with redundant information. At this time however, homogeneous approaches aren't as flexible as heterogeneous, with extensions failing to integrate well with ...

22 Evolutionary design of complex software (EDCS) demonstration days 1999

80%

Wayne Stidolph

ACM SIGSOFT Software Engineering Notes January 2000 Volume 25 Issue 1

This report summarizes the Product/Technology demonstrations given at Defense Advanced Research Projects Agency (DARPA) Evolutionary Design of Complex Software (EDCS) Program Demonstration Days, held 28-29 June 1999 at the Sheraton National Hotel, Arlington, VA.

23 Pavilion: a middleware framework for collaborative Web-based applications

80%

P. K. McKinley, A. M. Malenfant, J. M. Arango

Proceedings of the international ACM SIGGROUP conference on Supporting group work November 1999

This paper describes Pavilion, an object-oriented middleware framework for developing collaborative web-based applications. Pavilion enables a developer to construct new applications by inheriting and extending its default functionality. Reusable and extensible Pavilion components include interfaces to common web browsers, a reliable multicast protocol tailored for delivery of web resources, a leadership protocol for floor control, and a highly modular proxy server that supports data type-s ...

24 An approach to large-scale collection of application usage data over the 80% Internet

David M. Hilbert, David F. Redmiles

Proceedings of the 20th international conference on Software engineering April 1998

25 Java driven codesign and prototyping of networked embedded systems 80% Josef Fleischmann, Klaus Buchenrieder, Rainer Kress Proceedings of the 36th ACM/IEEE conference on Design automation conference

June 1999

26 Java resources for computer science instruction

80%

Joseph Bergin , Thomas L. Naps , Constance G. Bland , Stephen J. Hartley , Mark A. Holliday , Pamela B. Lawhead , John Lewis , Myles F. McNally , Christopher H. Nevison , Cheng Ng , George J. Pothering , Tommi Teräsvirta

ACM SIGCSE Bulletin December 1998

Volume 30 Issue 4

The goal of this working group was to collect, evaluate, and foster the development of resources to serve as components of both new and revised traditional courses that emphasize object-oriented software development using Java. These courses could, for example, integrate Internet-based distributed programming, concurrency, database programming, graphics and visualization, human interface design and object-oriented development. They could therefore also be suitable as capstone courses in computer ...

27 Unifying strategies for Web augmentation

80%

Niels Olof Bouvin

Proceedings of the tenth ACM Conference on Hypertext and hypermedia: returning to our diverse roots: returning to our diverse roots February 1999

28 Interoperable Web services for computational portals

80%

Marlon Pierce, Geoffrey Fox, Choonhan Youn, Steve Mock, Kurt Mueller, Ozgur Balsoy

Proceedings of the 2002 ACM/IEEE conference on Supercomputing November
2002

Computational web portals are designed to simplify access to diverse sets of high performance computing resources, typically through an interface to computational Grid tools. An important shortcoming of these portals is their lack of interoperable and reusable services. This paper presents an overview of research efforts undertaken by our group to build interoperating portal services around a Web Services model. We present a comprehensive view of an interoperable portal architecture, beginning w ...

80%

29 Articles: Web Services: Promises and Compromises

Joanne Martin , Ali Arsanjani , Peri Tarr , Brent Hailpern

Queue March 2003 Volume 1 Issue 1

30 JAsCo: an aspect-oriented approach tailored for component based

80%

software development

Davy Suvée, Wim Vanderperren, Viviane Jonckers

Proceedings of the 2nd international conference on Aspect-oriented software development March 2003

In this paper we introduce a novel aspect oriented implementation language, called JAsCo. JAsCo is tailored for component based development and the Java Beans component model in particular. The JAsCo language introduces two concepts: aspect beans and connectors. An aspect bean describes behavior that interferes with the execution of a component by using a special kind of inner class, called a hook. The specification of a hook is context independent and therefore reusable. A connector on the othe ...

31 State-of-the-art presentations: Distributed component technologies and 80% their software engineering implications

Wolfgang Emmerich

Proceedings of the 24th international conference on Software engineering May 2002

In this state of the art report, we review advances in distributed component technologies, such as the Enterprise Java Beans specification and the CORBA Component Model. We assess the state of industrial practice in the use of distributed components. We show several architectural styles for whose implementation distributed components have been used successfully. We review the use of iterative and incremental development processes and the notion of model driven architecture. We then assess the st ...

32 The XCAT science portal

77%

Sriram Krishnan , Randall Bramley , Dennis Gannon , Madhusudhan Govindaraju , Rahul Indurkar , Aleksander Slominski , Benjamin Temko , Jay Alameda , Richard Alkire , Timothy Drews , Eric Webb

Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM) November 2001

The design and prototype implementation of the XCAT Grid Science Portal is described in this paper. The portal lets grid application programmers easily script complex distributed computations and package these applications with simple interfaces for others to use. Each application is packaged as a "notebook" which consists of web pages and editable parameterized scripts. The portal is a workstation-based specialized "personal" web server, capable of executing the application scripts and launchin ...

33 Multimodal architectures and frameworks: A framework for rapid development of multimodal interfaces

77%

Frans Flippo , Allen Krebs , Ivan Marsic

Proceedings of the 5th international conference on Multimodal interfaces November 2003

Despite the availability of multimodal devices, there are very few commercial multimodal applications available. One reason for this may be the lack of a framework to support development of multimodal applications in reasonable time and with limited

resources. This paper describes a multimodal framework enabling rapid development of applications using a variety of modalities and methods for ambiguity resolution, featuring a novel approach to multimodal fusion. An example application is studied t ...

34 Student competition papers: A framework for using component redundancy for self-adapting and self-optimising component-based enterprise systems

77%

Ada Diaconescu

Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications October 2003

We propose a framework that uses component redundancy for enabling selfadaptation, self-optimisation and self-healing capabilities in component-based enterprise software systems.

a 77%

35 Educator's symposiums: Preparing undergraduate students for Java certification

Ariel Ortiz

Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications October 2003

Java certification promises to make our students more marketable once they graduate. The truth is that certifications in general offer significant advantages, but it is important not to overestimate their benefits. In this paper, we describe our experiences on teaching a workshop aimed at preparing undergraduate students for the Sun Certified Java Programmer exam. But first, we layout the real value of IT certifications and explain the different certification options available for Java technolog ...

36 Doctoral papers: A framework for using component redundancy for self- 77% adapting and self-optimising component-based enterprise systems

Ada Diaconescu

Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications October 2003

We propose a framework that uses component redundancy for enabling self-adaptation, self-optimisation and self-healing capabilities in component-based enterprise software systems.

37 Invited papers on the frontiers of software practice: Patterns,

77%

frameworks, and middleware: their synergistic relationships
Douglas C. Schmidt, Frank Buschmann

Proceedings of the 25th international conference on Software engineering May 2003

The knowledge required to develop complex software has historically existed in programming folklore, the heads of experienced developers, or buried deep in the code. These locations are not ideal since the effort required to capture and evolve this knowledge is expensive, time-consuming, and error-prone. Many popular software modeling methods and tools address certain aspects of these problems by documenting *how* a system is designed. However, they only support limited portions of software ...

38 Technical papers: software architecture I: Comparison of two 77% component frameworks: the FIPA-compliant multi-agent system and the

web-centrie J2EE platform Michelle Casagni, Margaret Lyell

Proceedings of the 25th international conference on Software engineering May

This work compares and contrasts two component frameworks: (1) the web-centric Java 2 Enterprise Edition (J2EE) framework and (2) the FIPA-compliant multi-agent system (MAS). FIPA, the Foundation for Intelligent Physical Agents, provides specifications for agents and agent platforms. Both frameworks are component frameworks; servlets and Enterprise Java Beans (EJBs) in the case of J2EE and software agents in the case of MAS. Both frameworks are specification based, Both frameworks mandate platfo ...

39 Technical papers: software design: DADO: enhancing middleware to support crosscutting features in distributed, heterogeneous systems Eric Wohlstadter, Stoney Jackson, Premkumar Devanbu

Proceedings of the 25th international conference on Software engineering May 2003

Some "non-" or "extra-functional" features, such as reliability, security, and tracing, defy modularization mechanisms in programming languages. This makes such features hard to design, implement, and maintain. Implementing such features within a single platform, using a single language, is hard enough. With distributed, heterogeneous (DH) systems, these features induce complex implementations which cross-cut different languages, OSs, and hardware platforms, while still needing to share data

40 Applications: Building a massively multiplayer game for the million:

77%

77%

1 Disney's Toontown Online

Mark R. Mine , Joe Shochet , Roger Hughston

Computers in Entertainment (CIE) October 2003

Volume 1 Issue 1

This paper presents an overview of the lessons learned building Disney's Toontown Online, a 3D massively multiplayer online game (MMP) for children ages seven and older. The paper is divided into three main parts. The first presents design highlights of Toontown Online and focuses on the challenge of building an MMP for kids. In particular, we discuss ways of incorporating kid-friendly socialization into an MMP. The second part of the paper presents an overview of Panda-3D, the VR Studio's open ...

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short listing

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Automated Testing Projects

Spring 2004

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Research
Overview/Topics
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Formal Methods
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Prog. Languages



RESOLVE 2002 RESOLVE RSRG PEBB Web-CAT

Academic Info Publications Dissertation I am working on automated and semi-automated techniques for testing component-based software. These projects are tied together in a unified vision for **end-to-end black-box testing** of software components that encompasses the automatic generation of **test drivers**, automatic generation of **test data**, automatic (or semi-automatic) generation of **test oracles**, automatic **execution of tests**, and automatic **defect reporting**. These ideas are discussed in the following articles:

- Stephen H. Edwards. <u>A framework for practical, automated black-box testing of component-based software</u>. Software Testing, Verification and Reliability, 11(2), June 2001, to appear.
- Stephen H. Edwards. <u>Black-box testing using flowgraphs: An experimental assessment of effectiveness and automation potential</u>. Software Testing, Verification and Reliability, 10(4), December 2000, pp. 249-262.

The project abstracts on this page describe some of the research opportunities available in this area. Please note that even if a student is already working on a topic, there may be room for another student to help out for independent study credit. I am always looking for students who would like to participate. Everyone from the undergraduate looking for research credit to the Ph.D. candidate looking for a topic is welcome. You might also wish to visit my list of other research. If any of these ideas strike your interest, please do not hesitate to contact me.

Interpreter Features for Software Testing

Area(s) Programming Languages
Topic Test Driver Interpreters

Credit Undergrad Research or Grad Indep. Study

One can view a "test driver" for a component as a simple interpreter that supports all of the methods that the component understands, allowing one to build simple test scripts. In addition to the simple features one would expect in a scripting language, such an

features one would expect in a scripting language, such an

Description interpreter can be more powerful if it also possesses features that

make testing easier, such as support for repeating scripts with a series of input parameters, built-in boundary value analysis support, special logging features, and so on. This project will design and implement an appropriate set of interpreter support features for

software testing.

Status Open for summer, fall, or spring semesters

Implementing Built-In Test (BIT) Wrappers for JML

Area(s) Software Engineering

Topic BIT Wrappers

Credit Undergrad Research or Grad Indep. Study

A built-in test (BIT) wrapper is a high-powered defensive shell that can be used to encase a software component. On each method calls, it checks that preconditions are met, verifies output is consistent with postconditions, and performs internal component consistency checks to ensure data structure integrity. The Java Modeling

Description Language (JML) allows one to specify the behavior of Java classes

in embedded comments, sort of like Javadoc. This project involves designing and implementing a strategy for generating BIT wrappers from JML specifications. This generation capability will be added to an existing JML tool. Significant prior Java development experience

is a must.

Status Open for summer, fall, or spring semesters

Run-time Infrastructure for Built-in Testing

Area(s) Software Engineering

Topic BIT Wrappers

Credit Undergrad Research or Grad Indep. Study

Built-in Test (BIT) wrappers provide a useful way to add (or remove) run-time self-checking code around objects. In Java, there are several strategies for controlling BIT wrappers at run-time. This project will focus on how to (a) manage the automatic insertion or

Description

removal of wrappers around selected objects at run-time, and (b) provide a clean, well-designed "control panel" applet allowing one to dynamically manage which wrappers and wrapper features are

enabled.

Status Open for summer, fall, or spring semesters

Designing a Reflective Self-Testing API

Area(s) Software Engineering

Topic BIT Wrappers

Credit Undergrad Research, Grad Indep. Study, M.S. Thesis, or Ph.D.

Goals:

1. Design an effective way to embed a component's test suite (s) in a "self-testing" wrapper together with the necessary scaffolding needed to run the suite(s).

Description

2. **Design an API** for this wrapper that allows one to query its self-testing abilities and also request that it carry out self-tests.

For a thesis project, the results will be combined with earlier research to produce self-testing/self-monitoring components for use during development.

Status Vamsee Samatam, Ph.D. dissertation, in progress

Experimentally Assessing BIT Wrappers

Software Engineering Area(s)

Topic **BIT Wrappers**

Credit Grad Indep. Study or M.S. Thesis

> A BIT wrapper performs sophisticated condition checking on the inputs, outputs, and internal state of an object on each method call.

Description In some cases, this may impose a noticeable run-time penalty. The

goal of this project is to design and carry out experiments to characterize and assess the overhead imposed by such a wrapper.

Status Open for summer, fall, or spring semesters

Automatically Generating Test Data

Area(s) Software Engineering, Programming Languages

Topic Automated Testing

Credit Grad Indep. Study, M.S. Thesis, or Ph.D.

> This project is a continuation of current research on techniques for automatically generating test data for software components. Think of a software component as a black-box that provides a well-defined "interface" as a series of methods. Generating one test case amounts to choosing a sequence of method calls (and their parameters) that will exercise the component in some interesting way. Automatically generating an entire test suite is then the problem of writing a

program that can generate a reasonable number of "interesting"

test cases in this fashion, and which will give some assurance that Description all the cases taken together will do a good job of revealing any defects hidden in the component's implementation. An early

prototype generator that does this will be redesigned and reengineered. Java programming experience is required, and the implementation of several graph-based algorithms is an important

part of the project.

For a thesis, experimental evaluation of a number of heuristics

embodied in the prototype will be carried out.

Status Mahesh Mungara, MS Thesis, Fall 02/Spring 03

Mutation Testing for Experimental Assessment

Area(s) Software Engineering, Programming Languages

Topic Software Testing, Experimental Analysis

Credit Undergrad Research, Grad Indep. Study, or M.S. Thesis

> To empirically study the effectiveness of testing techniques, it is helpful to have a collection of known "bugs" to use. Simplistically, you just run your technique against those bugs and collect

Description information on how many of them are discovered as a result.

Mutation testing is one technique for artificially seeding errors systematically throughout a candidate program (also called fault injection). The goal of this project is to develop the necessary tools to use mutation testing to set up software testing experiments and collect the results for analysis. Compiler-compiler tools (lexer and parser generators) will be used.

For a thesis project, investigation of appropriate mutation operators for modern OO languages (C++ and Java) will be explored.

Status

Open for summer, fall, or spring semesters

Experimentally Assessing Testing Effectiveness

Area(s) Software Engineering

Topic Software Testing, Experimental Analysis

Credit Undergrad Research, Grad Indep. Study, or M.S. Thesis

Experimentally measuring how effective a testing approach is requires careful planning. One approach is to select a collection of

software artifacts to test, ensure it is bug-free, and then

Description systematically seed errors in each artifact. Then testing techniques

can be assessed by applying them to the units in this collection and measuring how many of the seeded errors are uncovered. This project will involve developing such a collection from either C++ or

Java standard libraries.

Status Open for summer, fall, or spring semesters

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